

SuperServer E102-9AP-L



Integrated Board



Super A2SAN-L

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Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.

Key Features

- Embedded Applications

1. Intel® Atom® processor E3930 (6.5W, 2C)
Single socket FCBGA 1296
2. System on Chip
3. 1 M.2 B-Key 2280, 1 Full size Mini-PCI-E
4. Up to 8GB unbuffered non-ECC SO-DIMM, DDR3L-1866MHz, in 1 socket
5. Dual GbE LAN w/ Intel i210IT
6. 4 COM (RS-232/422/485), 2 USB 3.0
7. 1 VGA port, 1 HDMI port
8. Passive CPU heat sink and
1x40mm chassis fans
9. Lockable 12V DC 40W power adapter

Specifications

Product SKUs

- SYS-E102-9AP-L** ■ SuperServer E102-9AP-L (**Black**)

Motherboard

Super A2SAN-L

Processor/Cache

- CPU** ■ Intel® Atom® Processor E3930
 - Single Socket FCBGA 1296 supported
 - CPU TDP support 65W

- Cores / Cache** ■ 2 cores, 2 threads

System Memory

- Memory Capacity** ■ Up to 8GB Unbuffered non-ECC SO-DIMM, DDR3L-1866MHz, in 1 DIMM slot

- Memory Type** ■ DDR3L up to 1866MHz (8GB)

- DIMM Sizes** ■ 8GB, 4GB, 2GB

- Memory Voltage** ■ 1.35V

On-Board Devices

- Chipset** ■ System on Chip

- Network Controllers** ■ Dual LAN with Intel® I210IT

- Audio** ■ ALC 888S HD Audio

- Video** ■ Intel® HD Graphics 620

Input / Output

- USB** ■ 2 USB 3.0

- Video Output** ■ 1 VGA port
 - 1 HDMI port

- COM Port** ■ 2 RS232, 2 RS232/422/485, RS-485 supports auto flow control (optional)

- Audio** ■ 1 HD Audio header (Mic-in/Line-Out)

Chassis

- Form Factor** ■ 3.5" SBC

- Model** ■ **CSE-E102**

Dimensions

- Width** ■ 7.48" (190mm)

- Height** ■ 1.72" (44mm)

- Depth** ■ 4.72" (120mm)

- Weight** ■ Net Weight: 2.65 lbs (1.2 kg)

- Available Colors** ■ Black

Front Panel

- Buttons** ■ Power On/Off button

- LEDs** ■ Power LED and Hard drive activity LED

Expansion Slots

- PCI-Express** ■ 1 Full size Mini-PCIe (1 USB 2.0, 1 PCIe Gen2)

- M.2** ■ Interface: SATA, PCIe 2.0 x1 and USB 2.0
 - Form Factor: B-Key 2280

Drive Bays

- Internal** ■ 1 M.2 2280 B-Key for SATA or PCIe SSD (2242 can be supported with bracket)
 - 1 SATA 3.0 for 2.5" 7mm SATA HDD/SSD

System Cooling

- Fans** ■ 1x 40mm chassis fan

- Heat Sink** ■ Passive CPU heat sink

Power Supply

Lockable 12V DC 40W power adapter

System BIOS

- BIOS Type** ■ AMI UEFI

Management

- Software** ■ SuperDoctor® 5
 - Watch Dog

- Power Configurations** ■ +12V DC Power Input
 - ACPI Power Management
 - Control of power-on for recovery from AC power loss
 - Force Power On by Jumper
 - CPU thermal trip support for processor protection

Operating Environment / Compliance

- RoHS** ■ RoHS Compliant

**Environmental
Spec.**

- Operating Temperature:
0°C to 40°C (32°F to 104°F)
 - Non-operating Temperature:
-40°C to 70°C (-40°F to 158°F)
 - Operating Relative Humidity:
8% to 90% (non-condensing)
 - Non-operating Relative Humidity:
5% to 95% (non-condensing)
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Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-A2SAN-L	1	Super A2SAN-L Motherboard
	CSE-E102	1	Chassis for Embedded 3.5" SBC
Power Adapter	MCP-250-10124-0N	1	FSP 40W 12V 3.33A, AC to DC lockable power adapter, HF, RoHS

Optional Parts List

	Part Number	Qty	Description
Cable	CBL-CUSB-1045	-	SERIAL, 2x DB9M TO 2X10F/P2.00, INT TO EXT, FLAT, 12CM, 28AWG
Cable	CBL-PWEX-0982	-	PWR EXT, 1X4F/P2.50 TO SATA POWER, 25CM, 22AWG
Cable	CBL-SAST-0881	-	SATA, INT, 6G, FLAT, ST-RA, 25CM, 30AWG, BLK, No Latch, RoHS
Chassis parts	MCP-160-10202-0B	-	CSE-E102 Optional FP mylar with 4x Comport opening only
Chassis parts	MCP-160-10203-0B	-	CSE-E102 Optional FP mylar with 4x comport and Audio port
Chassis parts	MCP-160-10204-0B	-	CSE-E102 Optional FP mylar with Audio port only
Power Adapter	MCP-250-10117-0N	-	60W DC power adapter with US power cord 18AWG 6ft
Power Adapter	MCP-250-10124-0N	-	AC to DC 40W lockable power adapter
IO shield	MCP-260-10202-0B	-	CSE-E102 I/O shield for X11SSN
IO shield	MCP-260-10201-0B	-	CSE-E102 I/O shield for A2SAN and X11SAN
Chassis parts	MCP-290-10113-0B	-	w all mount/VESA mount